(19)

(11) Publication number: 1(

Generated Document.

PATENT ABSTRACTS OF JAPAN

(21) Application number: **08298219**

(51) Intl. Cl.: **A01K 67/027** C12N 15/09

(22) Application date: **21.10.96**

(30) Priority:

(43) Date of application publication: **12.05.98**

(84) Designated contracting states:

(71) Applicant: **MITSUI PHARMACEU**
KANAI YOSHIYUKI
FUJITA GAKUEN

(72) Inventor: **KUROSAWA YOSHIKA**
MIURA KEIJI
KANAI YOSHIYUKI
KUBOTA TETSURO
AWAYA AKIRA

(74) Representative:

(54) GENE LACKING ANIMAL

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a non-human mammal which is useful as a model of disease by deficiency or excess of uncleobindin (Nuc) and does not contain genes coding for Nuc by lacking the Nuc genes or substituting these genes with other genes.

SOLUTION: The animals which lack the Nuc genes or are replaced with other genes include, for example, mouse, rat, etc. The desired animal is recommended to be produced by building a targeting vector for destroying the mNuc genes of embryonic trunk cells (ES cells), then introducing the targeting vector into the ES cells, selecting the variation cells inducing the homologous recombination by a PCR method, etc.,

introducing the homologous recombination somatic cells into the blastocyst and transferring the same to the uterus of the animal to obtain a chimera animal. Further, the animal in which both of the Nuc genes of both chromosomes are destroyed is recommended to be obtd. by mating the animals derived from the homologous recombination somatic cells from the chimera animals with each other.